CANNED FISH & BYPRODUCTS — 1951

AUG 22 1952

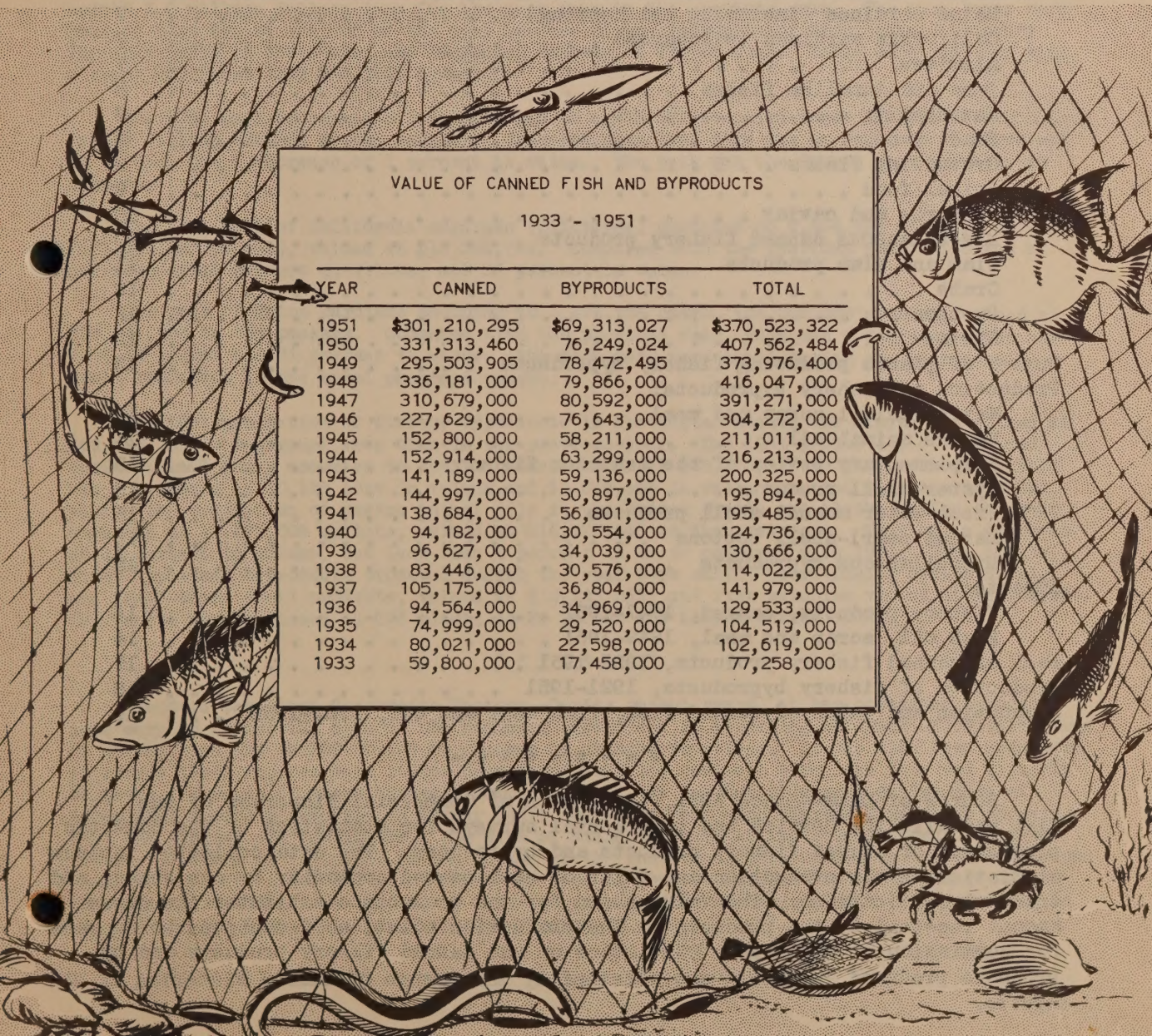
Department of the Interior
Washington 25, D.C.

Fish and Wildlife Service
Branch of Commercial Fisheries

LIBRARY
FISH & WILDLIFE SERVICE
PACIFIC OCEANIC FISHERY
INVESTIGATIONS

C.F.S. No. 772

ANNUAL SUMMARY, 1951



VALUE OF CANNED FISH AND BYPRODUCTS

1933 - 1951

YEAR	CANNED	BYPRODUCTS	TOTAL
1951	$301,210,295	$69,313,027	$370,523,322
1950	331,313,460	76,249,024	407,562,484
1949	295,503,905	78,472,495	373,976,400
1948	336,181,000	79,866,000	416,047,000
1947	310,679,000	80,592,000	391,271,000
1946	227,629,000	76,643,000	304,272,000
1945	152,800,000	58,211,000	211,011,000
1944	152,914,000	63,299,000	216,213,000
1943	141,189,000	59,136,000	200,325,000
1942	144,997,000	50,897,000	195,894,000
1941	138,684,000	56,801,000	195,485,000
1940	94,182,000	30,554,000	124,736,000
1939	96,627,000	34,039,000	130,666,000
1938	83,446,000	30,576,000	114,022,000
1937	105,175,000	36,804,000	141,979,000
1936	94,564,000	34,969,000	129,533,000
1935	74,999,000	29,520,000	104,519,000
1934	80,021,000	22,598,000	102,619,000
1933	59,800,000	17,458,000	77,258,000

CANNED FISHERY PRODUCTS AND BYPRODUCTS OF THE UNITED STATES AND ALASKA, 1951

CONTENTS

	Page
Production of canned fishery products and byproducts, 1951	2
Summary of production: By Commodities	3
Summary of production: By States	4
Factors used to convert standard cases to pounds	4
Plants producing canned fishery products and byproducts, 1951	4
Pack of canned fish, shellfish, etc.:	
Salmon, Alaska	5
Salmon, United States and Alaska	6
Review of Pacific Coast States salmon pack, by districts	7
Maine sardines (including sea herring)	7
California sardines (pilchards)	7
Alewives	7
Tuna and tunalike fishes	8
Mackerel	9
Shad	9
Groundfish flakes	9
Animal food	9
Fish roe and caviar	10
Miscellaneous canned fishery products	10
Clam and clam products	11
Crabs	12
Oysters	12
Shrimp	12
Number of plants producing fishery byproducts	13
Production of fishery byproducts:	
Marine animal scrap and meal	14
Marine animal oil	14
Supplementary review of the menhaden fishery	15
Oyster-shell products	15
Fresh-water mussel-shell products	15
Marine pearl-shell buttons	15
Miscellaneous byproducts	15
Imports:	
Fishery products, canned, 1947-1951	16
Fish oil, scrap and meal, 1949-1951	14
Pack of canned fishery products, 1921-1951	17
Production of fishery byproducts, 1921-1951	18
Production and value of canned fish, fish meal and oil, 1921-1951	19

* * * * * * * * *

Source of Data--Since 1921, the Branch of Commercial Fisheries of the Fish and Wildlife Service has made annual surveys for statistics of the domestic production of canned fishery products and byproducts. The data collected include statistics on the production and value of each canned commodity by can sizes, and trade classifications. The value shown for the products constitutes the gross amount received by the producer at the production point, no deductions being made for commission or expenses. Statistics on the canned fishery products and by-products produced in Alaska are obtained by the Branch of Alaska Fisheries of the Service.

UNITED STATES PRODUCTION OF CANNED FISHERY PRODUCTS AND BYPRODUCTS - 1951

The pack of canned fishery products in the United States and Alaska in 1951 amounted to 800,514,576 pounds, valued at $301,210,295 to the packers. This was a decrease of 17 percent in volume and 9 percent in value compared with the 1950 production. These decreases resulted principally from smaller packs of tuna and California sardines (pilchards). Canned fishery products were packed in 473 plants in 21 States and Alaska during 1951.

California led in the production of canned fishery products with a pack of 388,296,199 pounds, valued at $122,572,382. Alaska was second with 168,439,139 pounds, valued at $80,748,052. These areas accounted for 70 percent of the volume of the 1951 pack and 68 percent of its value.

The pack of tuna and tunalike fishes, which amounted to 8,236,725 cases (157,326,462 pounds), valued at $99,046,206, was 779,816 cases less than the 1950 production. Canners received 3.8 million dollars less for the pack than in the previous year. The tuna boats were held in port toward the end of the year because of an oversupply of fish, caused by heavy landings early in the season and increased imports of frozen tuna. These were combined with a heavy carryover from the 1950 season.

The 1951 pack of canned salmon amounted to 4,645,570 standard cases (222,987,360 pounds), valued at $108,625,869 to the canners. Compared with 1950 this was an increase of 8 percent in volume, but a decrease of 1 percent in value. The pack was the fourth most valuable in history.

The 1951 pack of California sardines (pilchards) amounted to 2,864,984 standard cases, (128,924,280 pounds), valued at $19,362,744. Compared with the previous year, this was a decrease of 44 percent in volume, and 26 percent in value.

The pack of Maine sardines amounted to 1,676,764 cases, (34,038,309 pounds), valued at $14,635,352 to the packers. Compared with the previous year, this was a decrease of 56 percent in volume and 31 percent in value. The fish were very small during the year causing a great reduction in the total poundage caught.

The 1951 production of fishery byproducts in the United States and Alaska was valued at $69,313,027 -- 9 percent less than in the previous year. The 1951 production of fish and marine animal scrap amounted to 209,756 tons, valued at $25,373,897 to the producers. This was a decrease of 30,168 tons in volume and $3,878,458 in value compared with the previous year. The production of marine animal oils in the United States and Alaska during the year amounted to 18,172,308 gallons, valued at $16,623,643 to the producers. This was a decrease of 16 percent in volume, but less than 1 percent in value compared with 1950. Some of the other important byproducts produced during the year were marine pearl-shell, oyster shell, and fresh-water shell products, valued at $15,129,252; and fish solubles valued at $4,128,356. Byproducts were produced in 275 plants in 24 States and Alaska during 1951.

* * * * * * * *

Standard Cases and Conversion Factors--During recent years, it has occasionally been necessary to revise the size of the standard cases used in reporting the pack of certain items of canned fish and shellfish due to changes in canning practices. It has also been necessary to revise these figures when it has been found that the contents were less than was formerly believed. Because of these changes, comparisons of the "number of cases" or "pounds" of individual products reported in former years should be made with extreme care to be certain that the figures are comparable. The size of standard cases of individual items of canned fishery products is indicated at the bottom of the individual pack tables in the annual canned fish and byproducts bulletins. The factors used to convert standard cases to pounds during the period from 1921 to 1951 will be found on page 4. The historical pack data appearing on page 17 are based on the size of the standard cases used for 1951.

SUMMARY OF PRODUCTION: BY COMMODITIES, 1951

PRODUCTS	NUMBER OF PLANTS	STANDARD CASES	POUNDS PER CASE	POUNDS	VALUE
CANNED PRODUCTS:					
SALMON:					
UNITED STATES	49	1,161,274	48	55,741,152	$29,388,514
ALASKA	122	3,484,296	48	167,246,208	79,237,355
TOTAL SALMON	171	4,645,570		222,987,360	108,625,869
SARDINES:					
MAINE	48	1,676,764	20.3	34,038,309	14,635,352
CALIFORNIA	42	2,864,984	45	128,924,280	19,362,744
TUNA AND TUNALIKE FISHES:					
TUNA:					
SOLID	46	3,000,911	21	63,019,131	41,354,491
FLAKES, CHUNKS AND GRATED	45	5,130,363	18	92,346,534	56,747,738
TOTAL TUNA	47	8,131,274		155,365,665	98,102,229
TUNALIKE FISHES:					
SOLID	12	20,893	21	438,753	184,219
FLAKES, CHUNKS AND GRATED	18	84,558	18	1,522,044	759,758
TOTAL TUNALIKE FISHES	19	105,451		1,906,797	943,977
TOTAL TUNA AND TUNALIKE FISHES	47	8,236,725		157,326,462	99,046,206
ALEWIVES	21	127,760	45	5,740,200	604,314
ANCHOVIES	4	41,055	48	1,970,640	489,062
MACKEREL	39	1,048,518	45	47,183,310	6,259,224
SALMON, SMOKED	8	492	48	23,616	30,480
SHAD, NATURAL	9	10,828	45	487,260	87,125
SHAD, STURGEON AND TUNA, SMOKED	4	205	48	9,840	11,550
FISH ANIMAL FOOD	23	2,341,871	48	112,409,808	11,675,809
FISH CAKES	5	145,348	48	6,976,704	1,812,874
FISH FLAKES, GROUNDFISH	4	19,639	42	824,838	312,445
FISH PASTE AND SPREAD	5	9,877	48	474,096	205,282
FISH MISCELLANEOUS	7	62,538	48	3,001,824	574,504
ROE AND CAVIAR	53	76,095	48	3,652,560	1,926,148
TOTAL FISH		21,308,269		726,040,107	265,658,980
CLAM PRODUCTS:					
WHOLE AND MINCED	41	390,746	15	1/ 5,861,190	4,674,252
CHOWDER	12	1,068,607	30	1/ 32,058,210	6,944,722
JUICE, BROTH AND NECTAR	12	42,254	30	1/ 1,267,620	154,935
TOTAL CLAM PRODUCTS	48	1,501,607		39,187,020	11,773,909
CRAB MEAT, NATURAL	51	149,945	19.5	2,923,928	3,586,558
CRABS, MISCELLANEOUS SPECIALTIES	12	3,909	48	187,632	106,932
LOBSTER SOUPS, STEWS AND THERMIDOR	4	4,809	48	230,832	126,877
OYSTERS:					
NATURAL	46	466,334	14	2/ 6,528,676	5,931,276
SMOKED	6	1,925	48	92,400	161,037
SOUP, STEW AND COCKTAILS	10	4,087	48	196,176	61,922
SHRIMP:					
WET PACK	45	871,171	15	2/ 13,067,565	12,187,049
MISCELLANEOUS SPECIALTIES	14	8,864	48	425,472	175,550
SQUID	14	208,806	48	10,022,688	1,000,944
TERRAPIN AND TURTLE MEAT, SOUPS AND STEWS	10	26,127	48	1,254,096	279,195
MISCELLANEOUS SHELLFISH SPECIALTIES	10	7,458	48	357,984	160,066
TOTAL SHELLFISH		3,255,042		74,474,469	35,551,315
TOTAL CANNED FISH AND SHELLFISH	473	24,563,311		800,514,576	301,210,295
		UNIT		QUANTITY	VALUE
BYPRODUCTS:					
MARINE-ANIMAL SCRAP AND MEAL	180	TONS		209,756	$25,373,897
MARINE-ANIMAL OILS:					
BODY OIL	119	GALLONS		17,872,733	14,044,296
LIVER AND VISCERA OIL	15	GALLONS		299,575	2,579,347
MARINE PEARL SHELL BUTTONS	24	GROSS		4,665,285	7,714,846
MUSSEL-SHELL PRODUCTS (FRESH WATER)	15	-		-	3,845,661
OYSTER SHELL PRODUCTS	24	TONS		453,319	3,568,745
GLUE, LIQUID	4	GALLONS		148,604	382,565
FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH	36	POUNDS		100,727,715	4,128,356
MISCELLANEOUS BYPRODUCTS	17	-		-	7,675,314
TOTAL BYPRODUCTS	275	-		-	69,313,027
GRAND TOTAL	3/685	-		-	370,523,322

1/ "CUT OUT" OR "DRAINED" WEIGHTS OF CAN CONTENTS ARE GIVEN FOR WHOLE OR MINCED CLAMS, AND THE GROSS CAN CONTENTS FOR OTHER CLAM PRODUCTS. 2/ DRAINED WEIGHT. 3/ EXCLUSIVE OF DUPLICATION.

NOTE:--LISTS OF CANNERS AND MANUFACTURERS OF FISHERY BYPRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE FISH AND WILDLIFE SERVICE, WASHINGTON 25, D.C.

SUMMARY OF PRODUCTION: BY STATES, 1951

STATES	CANNED		BYPRODUCTS	TOTAL
	POUNDS	VALUE	VALUE	VALUE
MAINE	70,925,085	$ 20,844,369	$ 3,006,784	$ 23,851,153
MASSACHUSETTS, CONNECTICUT, RHODE ISLAND	38,602,223	5,139,723	7,486,216	12,625,939
NEW YORK	2,914,980	1,551,660	4,489,887	6,041,547
NEW JERSEY, PENNSYLVANIA, DELAWARE	25,469,232	7,015,562	10,585,587	17,601,149
MARYLAND	5,821,518	1,614,563	2,506,938	4,121,501
VIRGINIA	4,975,116	678,586	3,080,351	3,758,937
NORTH CAROLINA	806,474	587,990	1,962,940	2,550,930
SOUTH CAROLINA, GEORGIA	1,703,035	1,686,261	113,442	1,799,703
FLORIDA, ALABAMA	1,103,350	1,062,414	2,453,692	3,516,106
MISSISSIPPI	3,874,201	3,735,095	2,831,295	6,566,390
LOUISIANA	12,686,003	11,055,683	6,824,003	17,879,686
TEXAS	-	-	1,557,691	1,557,691
OHIO, WISCONSIN, MINNESOTA, MISSOURI	798,576	151,369	65,986	217,355
IOWA	-	-	3,523,602	3,523,602
WASHINGTON	53,085,399	27,312,377	1,715,196	29,027,573
OREGON	21,014,046	15,454,209	294,502	15,748,711
CALIFORNIA	388,296,199	122,572,382	14,591,958	137,164,340
ALASKA	168,439,139	80,748,052	2,222,957	82,971,009
TOTAL	800,514,576	301,210,295	69,313,027	370,523,322

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

PRODUCT	PRIOR TO 1938	1939 AND 1940	1941	1942	1943	1944 TO 1947	1948 TO 1951
	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE
SARDINES:							
MAINE	25	25	25	20.3	20.3	20.3	20.3
CALIFORNIA	48	48	48	45	45	45	45
TUNA AND TUNALIKE FISHES:							
SOLID	24	24	21	22.5	22.5	21	21
FLAKES	24	24	21	18	18	18	18
MACKEREL	48	48	48	45	45	45	45
ALEWIVES	48	48	48	48	45	45	45
SHAD	48	48	48	48	48	45	45
FISH FLAKES	48	48	48	48	48	42	42
OYSTERS	15	15	15	15	22.5	22.5	14
SHRIMP, WET PACK	17.25	17.25	17.25	21	21	21	15
CLAM PRODUCTS:							
WHOLE AND MINCED	15	15	15	15	15	15	15
JUICE, CHOWDER, BROTH, ETC	30	30	30	30	30	30	30
CRABS	48	39	39	39	39	39	19.5
ALL OTHER	48	48	48	48	48	48	48

NOTE:--THE FACTORS LISTED ABOVE WERE USED IN CONVERTING THE STANDARD CASES REPORTED IN THE CANNED FISHERY PRODUCTS BULLETINS FOR THE YEARS INDICATED. THE CASES SHOWN FOR ALL YEARS LISTED IN THE HISTORICAL SECTION ON PAGE 17 REPRESENT THE SAME SIZED CASES REPORTED FOR 1951.

PLANTS ENGAGED IN THE PRODUCTION OF CANNED FISHERY PRODUCTS AND BYPRODUCTS, 1951

STATE	CANNED PRODUCTS	BYPRODUCTS	TOTAL PLANTS, EXCLUSIVE OF DUPLICATION
	NUMBER	NUMBER	NUMBER
NEW ENGLAND:			
MAINE	55	17	66
MASSACHUSETTS	13	13	23
CONNECTICUT	1	4	4
RHODE ISLAND	1	1	2
TOTAL	70	35	95
MIDDLE ATLANTIC:			
NEW YORK	8	8	15
NEW JERSEY	4	19	23
PENNSYLVANIA	1	6	7
DELAWARE	-	2	2
TOTAL	13	35	48
CHESAPEAKE BAY:			
MARYLAND	10	9	18
VIRGINIA	14	15	27
TOTAL	24	24	45
S. ATLANTIC & GULF:			
NORTH CAROLINA	12	21	31
SOUTH CAROLINA	5	2	6
GEORGIA	2	1	3
FLORIDA	3	5	8
S. ATLANTIC AND GULF - CONT'D.			
ALABAMA	3	1	4
MISSISSIPPI	18	5	23
LOUISIANA	34	35	67
TEXAS	-	4	4
TOTAL	77	74	146
GREAT LAKES AND MISS. RIVER.			
OHIO	1	-	1
WISCONSIN	1	-	1
MINNESOTA	-	1	1
MISSOURI	-	1	1
IOWA	-	11	11
TOTAL	2	13	15
PACIFIC COAST:			
WASHINGTON	60	10	70
OREGON	27	7	30
CALIFORNIA	63	61	85
TOTAL	150	78	185
ALASKA	137	16	151
GRAND TOTAL	473	275	685

PACK OF CANNED SALMON: STANDARD CASES, 1951

SPECIES AND CAN SIZE	ALASKA							
	SOUTHEASTERN		CENTRAL		WESTERN		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING:								
1-POUND TALL	623	$16,001	51,438	$1,339,328	4,140	$114,005	56,201	$1,469,334
1-POUND FLAT	-	-	751	23,281	90	2,628	841	25,909
1/2-POUND FLAT	13	475	19,448	670,942	11,030	319,724	30,491	991,141
2-POUND TALL	-	-	-	-	68	1,962	68	1,962
TOTAL	636	16,476	71,637	2,033,551	15,328	438,319	87,601	2,488,346
CHUM OR KETA:								
1-POUND TALL	451,474	7,175,247	217,818	2,807,528	21,877	372,805	691,169	10,355,580
1-POUND FLAT	174	3,306	24	552	-	-	198	3,858
1/2-POUND FLAT	14,686	289,501	9,790	203,331	3,644	73,089	28,120	565,921
TOTAL	466,334	7,468,054	227,632	3,011,411	25,521	445,894	719,487	10,925,359
PINK:								
1-POUND TALL	1,175,696	24,288,714	311,971	6,430,868	75	1,650	1,487,742	30,721,232
1-POUND FLAT	-	-	7	150	-	-	7	150
1/2-POUND FLAT	50,801	1,265,293	21,112	516,626	-	-	71,913	1,781,919
4-POUND TALL	85	1,785	-	-	-	-	85	1,785
TOTAL	1,226,582	25,555,792	333,090	6,947,644	75	1,650	1,559,747	32,505,086
RED OR SOCKEYE:								
1-POUND TALL	44,914	1,338,140	236,070	6,984,054	301,302	9,423,887	582,286	17,746,081
1-POUND FLAT	1,364	43,648	7,061	233,239	13,802	455,271	22,227	732,158
1/2-POUND FLAT	24,039	870,882	119,414	4,369,817	24,488	883,934	167,941	6,124,633
4-POUND TALL	-	-	9	235	-	-	9	235
TOTAL	70,317	2,252,670	362,554	11,587,345	339,592	10,763,092	772,463	24,603,107
SILVER OR COHO:								
1-POUND TALL	198,719	4,799,665	62,682	1,518,481	3,980	110,650	265,381	6,428,796
1-POUND FLAT	-	-	119	3,094	-	-	119	3,094
1/2-POUND FLAT	64,764	1,920,089	4,827	129,100	4,022	99,693	73,613	2,148,882
4-POUND TALL	909	22,725	4,976	111,960	-	-	5,885	134,685
TOTAL	264,392	6,742,479	72,604	1,762,635	8,002	210,343	344,998	8,715,457
GRAND TOTAL	2,028,261	42,035,471	1,067,517	25,342,586	388,518	11,859,298	3,484,296	79,237,355

PACK OF CANNED SALMON: STANDARD CASES, 1951 - Continued

SPECIES AND CAN SIZE	UNITED STATES						GRAND TOTAL, UNITED STATES AND ALASKA	
	WASHINGTON		OREGON 1/		UNITED STATES TOTAL			
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING:								
1-POUND TALL	9,633	$209,159	6,861	$140,053	16,494	$349,212	72,695	$1,818,546
1-POUND FLAT	-	-	6,823	199,198	6,823	199,198	7,664	225,107
1/2-POUND FLAT	27,484	1,011,536	103,998	4,184,676	131,482	5,196,212	161,973	6,187,353
1/4-POUND FLAT	-	-	2,424	113,071	2,424	113,071	2,424	113,071
OTHER	8	138	-	-	8	138	76	2,100
TOTAL	37,125	1,220,833	120,106	4,636,998	157,231	5,857,831	244,832	8,346,177
CHUM OR KETA:								
1-POUND TALL	224,668	3,614,304	8,117	133,137	232,785	3,747,441	923,954	14,103,021
1-POUND FLAT	-	-	-	-	-	-	198	3,858
1/2-POUND FLAT	9,776	194,423	1,361	26,305	11,137	220,728	39,257	786,649
OTHER	18,115	416,295	-	-	18,115	416,295	18,115	416,295
TOTAL	252,559	4,225,022	9,478	159,442	262,037	4,384,464	981,524	15,309,823
PINK:								
1-POUND TALL 2/	357,708	7,381,223	-	-	357,708	7,381,223	1,845,450	38,102,455
1-POUND FLAT 2/	-	-	-	-	-	-	7	150
1/2-POUND FLAT	79,209	1,945,250	-	-	79,209	1,945,250	151,122	3,727,169
OTHER	4,688	92,822	-	-	4,688	92,822	4,773	94,607
TOTAL	441,605	9,419,295	-	-	441,605	9,419,295	2,001,352	41,924,381
RED OR SOCKEYE:								
1-POUND TALL	1,823	55,334	-	-	1,823	55,334	584,109	17,801,415
1-POUND FLAT	-	-	-	-	-	-	22,227	732,158
1/2-POUND FLAT	155,119	5,765,527	1,009	42,484	156,128	5,808,011	324,069	11,932,644
1/4-POUND FLAT	4,194	183,778	1,262	56,536	5,456	240,314	5,456	240,314
OTHER	250	9,286	-	-	250	9,286	259	9,521
TOTAL	161,386	6,013,925	2,271	99,020	163,657	6,112,945	936,120	30,716,052
SILVER:								
1-POUND TALL 3/	69,540	1,653,810	6,377	159,814	75,917	1,813,624	341,298	8,242,420
1-POUND FLAT 3/	-	-	-	-	-	-	119	3,094
1/2-POUND FLAT	25,514	694,848	8,433	248,377	33,947	943,225	107,560	3,092,107
1/4-POUND FLAT	1,772	57,683	7,188	246,339	8,960	304,022	8,960	304,022
OTHER	3,058	83,493	-	-	3,058	83,493	8,943	218,178
TOTAL	99,884	2,489,834	21,998	654,530	121,882	3,144,364	466,880	11,859,821
STEELHEAD:								
1-POUND TALL	-	-	2/3,128	2/86,294	2/3,128	2/86,294	3,128	86,294
1/2-POUND FLAT	-	-	7,602	241,041	7,602	241,041	7,602	241,041
1/4-POUND FLAT	-	-	4,132	142,280	4,132	142,280	4,132	142,280
TOTAL	-	-	14,862	469,615	14,862	469,615	14,862	469,615
GRAND TOTAL	992,559	23,368,909	168,715	6,019,605	1,161,274	29,388,514	4,645,570	108,625,869

1/ INCLUDES A SMALL PACK IN CALIFORNIA. 2/ A SMALL PACK OF 1 POUND FLATS IS INCLUDED WITH 1 POUND TALLS IN WASHINGTON. 3/ A SMALL PACK OF 1 POUND FLATS IS INCLUDED WITH 1 POUND TALLS IN WASHINGTON AND OREGON.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1-POUND CANS, EACH CONTAINING 16 OUNCES OF SALMON. SALMON WERE CANNED IN 34 PLANTS IN WASHINGTON, 12 IN OREGON, 3 IN CALIFORNIA, AND 122 IN ALASKA.

SUPPLEMENTARY REVIEW OF THE PACIFIC COAST STATES SALMON PACK, 1951 BY DISTRICTS - STANDARD CASES

SPECIES	PUGET SOUND		COLUMBIA RIVER		COASTAL		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
CHINOOK OR KING	11,275	$281,794	143,046	$5,497,305	2,910	$78,732	157,231	$5,857,831
CHUM OR KETA	233,468	3,922,457	11,566	192,850	17,003	269,157	262,037	4,384,464
PINK	441,605	9,419,295	-	-	-	-	441,605	9,419,295
RED OR SOCKEYE	156,461	5,815,837	4,552	186,543	2,644	110,565	163,657	6,112,945
SILVER OR COHO	88,511	2,200,801	29,099	841,234	4,272	102,329	121,882	3,144,364
STEELHEAD	-	-	14,862	469,615	-	-	14,862	469,615
TOTAL	931,320	21,640,184	203,125	7,187,547	26,829	560,783	1,161,274	29,388,514

PACK OF MAINE SARDINES (INCLUDING SEA HERRING), 1951

STYLE OF PACK	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
NATURAL	61,811	$184,562	3-1/4 OUNCES NET (100 CANS)	1,555,029	$14,141,807
IN SOYBEAN OR OTHER VEGETABLE OIL	1,358,146	12,338,953			
IN MUSTARD SAUCE	204,907	1,682,039	10 OUNCES NET (48 CANS)	36,105	283,299
IN OLIVE OIL	19,813	207,251	15 OUNCES NET (48 CANS)	30,307	202,364
KIPPERED	16,911	106,709	OTHER SIZES (CONVERTED TO 3-1/4 OUNCES NET) (100 CANS)	1,270	7,882
OTHER 1/	15,176	115,838			
TOTAL	1,676,764	14,635,352	TOTAL	1,622,711	14,635,353

1/ INCLUDES SPECIAL PACKS OF SARDINES (INCLUDING SEA HERRING) IN COTTONSEED OIL, PEANUT OIL, TOMATO SAUCE, AND BONELESS FILLETS IN SOYBEAN OR OTHER VEGETABLE OIL.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF ONE HUNDRED 1/4 OIL CANS (3-1/4 OUNCES NET) TO THE CASE. SARDINES (INCLUDING SEA HERRING) WERE CANNED IN 45 PLANTS IN MAINE AND 3 IN MASSACHUSETTS.

PACK OF CALIFORNIA SARDINES (PILCHARDS), 1951

STYLE OF PACK	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
NATURAL, WITHOUT SAUCE OR OIL	947,550	$4,934,060	1-POUND CANS:		
IN TOMATO SAUCE	1,788,094	13,289,027	15 OUNCES NET, OVAL (48 CANS)	1,429,018	$10,198,404
IN MUSTARD SAUCE	85,993	506,991	15 OUNCES NET, TALL (48 CANS)	1,044,467	5,381,700
OTHER 1/	43,347	632,666	8 OUNCES NET (48 CANS)	140,817	713,653
			5 OUNCES NET (48 CANS)	457,478	3,024,021
TOTAL	2,864,984	19,362,744	OTHER SIZES, CONVERTED TO 15 OUNCES NET (48 CANS)	3,398	44,966
			TOTAL	3,075,178	19,362,744

1/ INCLUDES SPECIAL PACKS OF SARDINES (PILCHARDS) IN SOYBEAN OIL; IN TOMATO SAUCE AND OLIVE OIL; FILLETS WITHOUT SAUCE OR OIL AND FILLETS IN SOYBEAN OIL; IN TOMATO SAUCE; SKINLESS AND BONELESS IN OLIVE OIL.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT 1-POUND OVAL CANS (15 OUNCES NET). SARDINES (PILCHARDS) WERE CANNED IN 42 PLANTS IN CALIFORNIA.

PACK OF CANNED ALEWIVES: STANDARD CASES, 1951

STATE	CASES	VALUE
MARYLAND	61,147	$294,654
VIRGINIA	64,860	300,152
NORTH CAROLINA AND MAINE	1,753	9,508
TOTAL	127,760	604,314

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS OF 15 OUNCES EACH. PRACTICALLY THE ENTIRE PACK WAS CANNED IN 15 OUNCE CANS. ALEWIVES WERE CANNED IN 5 PLANTS IN MARYLAND, 12 IN VIRGINIA, 3 IN NORTH CAROLINA, AND 1 IN MAINE.

PACK OF CANNED TUNA AND TUNALIKE FISHES: STANDARD CASES, 1951

SPECIES	CALIFORNIA		WASHINGTON AND OREGON		ATLANTIC COAST		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE	CASES	VALUE
TUNA:								
ALBACORE:								
SOLID PACK. . .	752,712	$10,125,137	281,190	$4,378,486	-	-	1,033,902	$14,503,623
FLAKES, CHUNKS, AND GRATED . .	418,770	4,337,279	111,081	1,117,703	-	-	529,851	5,454,982
TOTAL	1,171,482	14,462,416	392,271	5,496,189	-	-	1,563,753	19,958,605
YELLOWFIN: 1/								
SOLID PACK. . .	1,165,864	16,019,072	63,794	925,878	-	-	1,229,658	16,944,950
FLAKES, CHUNKS, AND GRATED . .	2,652,170	29,188,579	189,167	2,231,896	-	-	2,841,337	31,420,475
TOTAL	3,818,034	45,207,651	252,961	3,157,774	-	-	4,070,995	48,365,425
BLUEFIN: 2/								
SOLID PACK. . .	20,067	251,215	-	-	-	-	20,067	251,215
FLAKES, CHUNKS, AND GRATED . .	51,855	546,602	-	-	-	-	51,855	546,602
TOTAL	71,922	797,817	-	-	-	-	71,922	797,817
SKIPJACK:								
SOLID PACK. . .	469,702	6,416,778	(1)	(1)	-	-	469,702	6,416,778
FLAKES, CHUNKS, AND GRATED . .	1,657,098	18,821,434	(1)	(1)	-	-	1,657,098	18,821,434
TOTAL	2,126,800	25,238,212	(1)	(1)	-	-	2,126,800	25,238,212
TONNO, SOLID PACK	160,626	2,180,231	-	-	-	-	160,626	2,180,231
MISCELLANEOUS: 3/								
SOLID PACK. . .	-	-	-	-	86,956	$1,057,694	86,956	1,057,694
FLAKES, CHUNKS, AND GRATED . .	-	-	-	-	50,222	504,245	50,222	504,245
TOTAL	-	-	-	-	137,178	1,561,939	137,178	1,561,939
TOTAL TUNA. .	7,348,864	87,886,327	645,232	8,653,963	137,178	1,561,939	8,131,274	98,102,229
TUNALIKE FISHES:								
BONITO:								
SOLID PACK. . .	8,986	80,085	-	-	-	-	8,986	80,085
FLAKES, CHUNKS, AND GRATED . .	5,483	54,279	-	-	-	-	5,483	54,279
TOTAL	14,469	134,364	-	-	-	-	14,469	134,364
YELLOWTAIL:								
SOLID PACK. . .	11,907	104,134	-	-	-	-	11,907	104,134
FLAKES, CHUNKS, AND GRATED . .	79,075	705,479	-	-	-	-	79,075	705,479
TOTAL . . .	90,982	809,613	-	-	-	-	90,982	809,613
TOTAL TUNALIKE FISHES . .	105,451	943,977	-	-	-	-	105,451	943,977
GRAND TOTAL TUNA AND TUNA-LIKE FISHES .	7,454,315	88,830,304	645,232	8,653,963	137,178	1,561,939	8,236,725	99,046,206

1/ A SMALL PRODUCTION OF SKIPJACK HAS BEEN INCLUDED WITH THE YELLOWFIN PRODUCTION IN WASHINGTON AND OREGON.
2/ A SMALL PRODUCTION OF BIG-EYED TUNA HAS BEEN INCLUDED WITH THE BLUEFIN PRODUCTION IN CALIFORNIA.
3/ INCLUDES PACKS OF ALBACORE, BLUEFIN, LITTLE, AND YELLOWFIN TUNA.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT NO. 1/2 TUNA CANS TO THE CASE, EACH CAN CONTAINING 7 OUNCES NET WEIGHT OF SOLID MEAT OR 6 OUNCES NET WEIGHT OF FLAKES, CHUNKS, OR GRATED. DIETETIC TUNA PACKS ARE INCLUDED IN THESE TOTALS.

SUPPLEMENTARY REVIEW OF THE PACK OF TUNA AND TUNALIKE FISHES BY CAN SIZES, 1951

CAN AND CASE SIZES		ACTUAL CASES	VALUE
4-POUNDS.	(12 CANS)	25,383	$681,448
1-POUND FLAT.	(48 CANS)	73,523	1,702,875
1/2-POUND FLAT.	(48 CANS)	7,720,604	91,663,848
1/4-POUND FLAT.	(48 CANS)	471,444	4,102,362
1/4-POUND FLAT.	(100 CANS)	57,324	894,393
MISCELLANEOUS, STANDARD CASES	(48 CANS)	74	1,280
TOTAL.		8,348,352	99,046,206

PACK OF CANNED MACKEREL, 1951 1/

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
MAINE AND MASSACHUSETTS. . . .	15,937	$193,213	15 OUNCES NET, TALL (48 CANS). . .	925,758	$5,258,311
			15 OUNCES NET, OVAL (48 CANS). . .	94,450	664,340
			14 OUNCES NET, (24 CANS)	3,649	15,459
CALIFORNIA.	1,032,581	6,066,011	5 OUNCES NET, (100 CANS).	19,535	156,790
			OTHER SIZES (CONVERTED TO.		
TOTAL.	1,048,518	6,259,224	STANDARD CASES)	13,042	164,324
			TOTAL.	1,056,434	6,259,224

1/ INCLUDES THE PACK OF JACK MACKEREL IN CALIFORNIA.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT 1 POUND CANS TO THE CASE, EACH CAN CONTAINING 15 OUNCES OF FISH. MACKEREL WERE CANNED IN 34 PLANTS IN CALIFORNIA, 2 IN MASSACHUSETTS, AND 3 IN MAINE.

PACK OF CANNED SHAD, 1951

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
MAINE AND MARYLAND. . .	698	$7,372	15 OUNCES NET (48 CANS)	10,382	$80,736
OREGON AND CALIFORNIA .	10,130	79,753	OTHER SIZES (CONVERTED TO		
			STANDARD CASES).	446	6,389
TOTAL.	10,828	87,125	TOTAL	10,828	87,125

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE UNIFORM BASIS OF FORTY-EIGHT NO 1 TALL CANS TO THE CASE, EACH CAN CONTAINING 15 OUNCES OF FISH. SHAD WERE CANNED IN 5 PLANTS IN OREGON, 2 IN MARYLAND, AND 1 PLANT EACH IN MAINE AND CALIFORNIA.

PACK OF CANNED GROUNDFISH FLAKES, 1951

STATE	STANDARD CASES	VALUE
MAINE AND MASSACHUSETTS.	19,639	$312,445

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 14 OUNCES OF FISH. GROUNDFISH FLAKES WERE CANNED IN 3 PLANTS IN MAINE AND 1 PLANT IN MASSACHUSETTS.

PACK OF CANNED ANIMAL FOOD FROM FISHERY PRODUCTS, 1951

STATE	STANDARD CASES	VALUE	CAN AND CASE SIZES	ACTUAL CASES	VALUE
MAINE, VIRGINIA, AND MARYLAND.	554,324	$3,004,750	8 OUNCES NET (48 CANS).	1,591,548	$4,718,434
MASSACHUSETTS.	595,084	2,330,269	16 OUNCES NET (48 CANS).	1,516,799	6,793,326
CALIFORNIA AND WASHINGTON.	1,192,428	6,340,527	OTHER SIZES (CONVERTED TO. . . .		
ALASKA	35	263	STANDARD CASES)	29,297	164,049
TOTAL	2,341,871	11,675,809	TOTAL	3,137,644	11,675,809

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CONTAINING 16 OUNCES. ANIMAL FOOD WAS CANNED IN 8 PLANTS IN MASSACHUSETTS, 10 PLANTS IN CALIFORNIA, AND 1 PLANT EACH IN MAINE, VIRGINIA, MARYLAND, WASHINGTON, AND ALASKA.

PACK OF CANNED FISH ROE AND CAVIAR, 1951

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	VALUE	STATES OF PRODUCTION AND NUMBER OF PLANTS
ROE:			
ALEWIFE (30)	1/41,856	1/$604,504	MARYLAND 5, VIRGINIA 14, NORTH CAROLINA 11.
SHAD (10)	3,349	277,404	MARYLAND 1, WASHINGTON 2, OREGON 5, CALIFORNIA 2.
DEEP SEA (2), HERRING (2)	13,014	201,455	MASSACHUSETTS 3, CONNECTICUT 1.
CAVIAR:			
SALMON (3), STURGEON (2)	3,425	398,151	NEW YORK 3.
WHITEFISH (4)	1,358	63,626	NEW YORK 3, WISCONSIN 1.
TOTAL EDIBLE ROE AND CAVIAR.	63,002	1,545,140	
SALMON EGGS FOR BAIT (5)	13,093	381,000	WASHINGTON 5.
GRAND TOTAL (53)	76,095	1,926,140	

1/ INCLUDES A SMALL PRODUCTION OF ALEWIFE AND MENHADEN ROE COMBINED.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS, EACH CAN CONTAINING 16 OUNCES OF ROE OR CAVIAR.

SUPPLEMENTARY REVIEW OF PACK OF CANNED FISH ROE AND CAVIAR: BY STATES, 1951

STATE	NO. OF PLANTS (NO DUPLICATION)	STANDARD CASES	VALUE	STATE CONTINUED	NO. OF PLANTS (NO DUPLICATION)	STANDARD CASES	VALUE
MASSACHUSETTS	3	13,014	$201,455	WISCONSIN	1	1,683	$109,119
CONNECTICUT	1			CALIFORNIA	2		
NEW YORK	4	4,368	438,528	WASHINGTON	7	13,194	388,094
MARYLAND	5	13,775	207,188	OREGON	5	1,923	183,850
VIRGINIA	14	20,767	291,534	NORTH CAROLINA	11	7,371	106,372
				TOTAL	53	76,095	1,926,140

PACK OF MISCELLANEOUS CANNED FISHERY PRODUCTS, 1951

PRODUCT	STANDARD CASES	VALUE	LOCATION AND NUMBER OF PLANTS
FISH:			
ANCHOVIES (IN TOMATO SAUCE, OR OIL OR NATURAL)	41,055	$489,062	CALIFORNIA 4.
FISH CAKES, GROUNDFISH	145,348	1,812,874	MAINE 2, MASSACHUSETTS 2, WASHINGTON 1.
FISH PASTE AND SPREAD (ANCHOVY, HERRING, SALMON, AND TUNA)	9,877	205,282	MASSACHUSETTS 1, NEW YORK 2, MARYLAND 1, CALIFORNIA 1.
FISH, SMOKED OR KIPPERED:			
SALMON	492	30,480	WASHINGTON 1, OREGON 5, ALASKA 2.
SHAD, STURGEON, AND TUNA	205	11,550	WASHINGTON 1, OREGON 3.
FISH SPECIALTIES (STRAINED COD FOR BABY FOOD, HADDOCK CHOWDER, FISH CHOWDER, AND DEVILED FISH	20,853	226,355	MAINE 1, MASSACHUSETTS 1, FLORIDA 1.
MISCELLANEOUS FISH (SALT COD, PACIFIC SEA HERRING, POLLOCK, WHITING AND GROUND MENHADEN	41,685	348,149	MAINE 1, MASSACHUSETTS 1, MARYLAND 1, CALIFORNIA 2.
SHELLFISH:			
CRAB SPECIALTIES:			
COCKTAILS	518	14,945	FLORIDA 1, WASHINGTON 2, OREGON 3.
BISQUE, SOUP, CURRY, CREOLE, NEWBERG, PASTE, DEVILED, AND SOFT SHELL	3,391	91,987	NEW YORK 1, MARYLAND 2, NORTH CAROLINA 1, SOUTH CAROLINA 1, FLORIDA 1, LOUISIANA 1.
LOBSTER BISQUE, SOUP, STEW, NEWBERG, AND THERMIDOR	4,809	126,877	MAINE 1, MASSACHUSETTS 1, NEW YORK 1, LOUISIANA 1.
OYSTER SPECIALTIES:			
SMOKED OYSTERS	1,925	161,037	LOUISIANA 1, WASHINGTON 4, OREGON 1.
SOUP, STEW, AND COCKTAILS	4,087	61,922	NEW YORK 1, MARYLAND 1, LOUISIANA 3, WASHINGTON 2, OREGON 3.
SHRIMP SPECIALTIES (COCKTAILS, PASTE, CAKES, SMOKED IN OIL, ASPIC, BISQUE, SOUP, GUMBO, CREOLE, AND NEWBERG	8,864	175,550	NEW YORK 1, MARYLAND 2, SOUTH CAROLINA 1, FLORIDA 1, LOUISIANA 5, WASHINGTON 1, OREGON 3.
SQUID	208,806	1,000,944	CALIFORNIA 14.
TERRAPIN AND TURTLE MEAT, SOUP, STEW, BARBECUE, AND CHILE CON CARNE	26,127	279,195	NEW YORK 1, SOUTH CAROLINA 1, GEORGIA 1, FLORIDA 2, LOUISIANA 4, OHIO 1.
MISCELLANEOUS SHELLFISH SPECIALTIES (CONCHS, CONCH CHILI AND CHOWDER, MUSSELS, FROG LEGS NEWBERG, CLAM CAKES, AND BISQUE, CRAYFISH BISQUE, SCALLOPS IN SAUCE, BOUILLABAISSE, CREOLE GUMBO, AND SEAFOOD NEWBERG	7,458	160,066	MAINE 2, MARYLAND 1, NEW YORK 1, NEW JERSEY 1, FLORIDA 1, LOUISIANA 4.
TOTAL	525,500	5,196,275	

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, EACH CONTAINING 16 OUNCES NET WEIGHT.

PACK OF CANNED CLAMS AND CLAM PRODUCTS, 1951

SPECIES, STATE, AND NUMBER PLANTS	STANDARD CASES					
	WHOLE AND MINCED		CHOWDER, JUICE, BROTH, BOUILLON AND NECTAR		TOTAL	
	CASES	VALUE	CASES	VALUE	CASES	VALUE
SOFT CLAMS:						
MAINE (9)	58,550	$690,559	242,613	$1,511,420	301,163	$2,201,979
RAZOR CLAMS:						
WASHINGTON (5) OREGON (2)	11,014	237,099	-	-	11,014	237,099
ALASKA (14)	44,082	811,417	-	-	44,082	811,417
TOTAL RAZOR CLAMS	55,096	1,048,516	-	-	55,096	1,048,516
HARD CLAMS: 1/						
NEW YORK (3) NEW JERSEY (3)	246,858	2,680,869	606,983	3,977,974	853,841	6,658,843
RHODE ISLAND (1) PENNSYLVANIA (1) AND MARYLAND (2)	-	-	253,053	1,584,696	253,053	1,584,696
WASHINGTON (5)	13,981	164,608	8,212	25,567	22,193	190,175
CALIFORNIA (3)	16,246	89,500	-	-	16,246	89,500
ALASKA (1), COCKLES	15	200	-	-	15	200
TOTAL HARD CLAMS	277,100	2,935,177	868,248	5,588,237	1,145,348	8,523,414
GRAND TOTAL (48)	390,746	4,674,252	1,110,861	7,099,657	1,501,607	11,773,909

CAN CONTENTS AND NUMBER OF CANS TO CASE	ACTUAL CASES			
	WHOLE AND MINCED		CHOWDER, JUICE, BROTH BOUILLON AND NECTAR	
	CASES	VALUE	CASES	VALUE
TIN:				
3-1/2 OUNCES NET (48 CANS)	26,701	$336,243	-	-
3-3/4 OUNCES NET (24 CANS)	222,351	1,114,505	-	-
4 OUNCES NET (48 CANS)	54,958	808,985	-	-
5 OUNCES NET (24 CANS)	103,515	625,616	-	-
5 OUNCES NET (48 CANS)	6,735	89,050	-	-
8 OUNCES NET (48 CANS)	11,952	119,656	-	-
8 OUNCES GROSS (48 CANS)	-	-	90,909	$351,658
10 OUNCES NET (24 CANS)	37,878	322,644	-	-
10 OUNCES GROSS (24 CANS)	-	-	195,905	668,913
12 OUNCES GROSS (24 CANS)	-	-	9,872	18,290
15 OUNCES GROSS (24 CANS)	-	-	322,716	1,514,863
20 OUNCES GROSS (24 CANS)	-	-	17,389	56,321
51 OUNCES NET (6 CANS)	2,399	28,549	-	-
90 OUNCES GROSS (6 CANS)	-	-	4,709	13,926
OTHER SIZES, NET (STANDARD CASES)	123,293	1,208,837	-	-
OTHER SIZES GROSS (STANDARD CASES)	-	-	653,504	4,394,451
TOTAL TIN PACK		4,654,085		7,018,422
GLASS:				
MISCELLANEOUS SIZES, NET (STANDARD CASES)	2,863	20,167	-	-
MISCELLANEOUS SIZES, GROSS (STANDARD CASES)	-	-	16,032	81,235
TOTAL GLASS PACK	2,863	20,167	16,032	81,235
GRAND TOTAL		4,674,252		7,099,657

1/ INCLUDES THE PACK OF SURF CLAMS IN NEW YORK AND NEW JERSEY; PISMO CLAMS IN CALIFORNIA; COCKLES IN ALASKA.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF 48 NO. 1 PICNIC CANS, EACH CAN OF WHOLE OR MINCED CLAMS CONTAINING 5 OUNCES OF MEAT, DRAINED WEIGHT; AND EACH CAN OF CHOWDER, JUICE, BROTH, BOUILLON, OR NECTAR, 10 OUNCES GROSS CONTENT.

SUPPLEMENTARY REVIEW OF CLAM PACK, 1951

PRODUCT AND NUMBER OF PLANTS	STANDARD CASES	POUNDS	VALUE
WHOLE CLAMS (17)	48,014	720,210	$595,845
MINCED CLAMS (29)	342,732	5,140,980	4,078,407
CHOWDER (12)	1,068,607	32,058,210	6,944,722
JUICE, BROTH, BOUILLON, AND NECTAR (12)	42,254	1,267,620	154,935
TOTAL (48)	1,501,607	39,187,020	11,773,909

PACK OF CANNED CRABS, 1951

STANDARD CASES				ACTUAL CASES		
EAST COAST: STATES	SPECIES	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
MAINE.	ROCK	1,511	$40,505			
NORTH AND SOUTH CAROLINA, ALABAMA AND MISSISSIPPI.	BLUE	42,821	964,150	6-1/2 OUNCES NET (24 CANS)...	97,253	$1,083,701
LOUISIANA.	BLUE	16,260	275,687	6-1/2 OUNCES NET (48 CANS). .	97,564	2,411,996
TOTAL.		60,592	1,280,342			
WEST COAST:				13 - OUNCES NET (24 CANS). .	2,038	48,050
WASHINGTON	DUNGENESS	19,885	507,373			
OREGON, CALIFORNIA . .	DUNGENESS	42,715	1,111,856	16 - OUNCES NET (24 CANS) . .	515	12,360
ALASKA	DUNGENESS	26,697	685,643			
	KING	56	1,344	3-1/4 OUNCES NET (48 CANS). .	2,166	30,451
TOTAL		89,353	2,306,216			
GRAND TOTAL . . .		149,945	3,586,558	TOTAL	199,536	3,586,558

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CONTAINING 6-1/2 OUNCES OF CRAB MEAT. CRAB MEAT WAS CANNED IN 14 PLANTS IN WASHINGTON, 18 IN ALASKA, 8 IN OREGON, 3 PLANTS EACH IN MAINE AND LOUISIANA, AND 1 PLANT EACH IN NORTH CAROLINA, SOUTH CAROLINA, ALABAMA, MISSISSIPPI, AND CALIFORNIA.

PACK OF CANNED OYSTERS, 1951

STANDARD CASES			ACTUAL CASES		
STATES	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
NORTH AND SOUTH CAROLINA.	53,064	$691,345	4-2/3 OUNCES NET (24 CANS). .	108,296	$830,950
GEORGIA AND ALABAMA	35,207	503,566	4-2/3 OUNCES NET (48 CANS). .	276,190	3,454,936
MISSISSIPPI	72,990	888,542	6-1/2 OUNCES NET (24 CANS). .	168,131	1,417,698
LOUISIANA	172,933	2,106,266	6-1/2 OUNCES NET (48 CANS). .	7,973	128,320
WASHINGTON.	120,572	1,593,864	OTHER SIZES (STANDARD		
OREGON.	11,568	147,693	CASES)	7,800	99,372
TOTAL.	466,334	5,931,276	TOTAL.	568,390	5,931,276

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 4-2/3 OUNCES DRAINED WEIGHT OF OYSTER MEATS. OYSTERS WERE CANNED IN 16 PLANTS IN LOUISIANA, 11 IN MISSISSIPPI, 6 IN WASHINGTON, 4 PLANTS EACH IN SOUTH CAROLINA AND OREGON, 3 IN ALABAMA AND 1 PLANT EACH IN GEORGIA AND NORTH CAROLINA.

PACK OF CANNED SHRIMP, 1951

STANDARD CASES			ACTUAL CASES		
STATES	CASES	VALUE	CAN AND CASE SIZES	CASES	VALUE
MISSISSIPPI.	1/ 182,373	$2,738,787	4-1/2 OUNCES NET (24 CANS). .	229,320	$1,723,025
LOUISIANA.	637,345	8,523,884	5 - OUNCES NET (48 CANS) . .	739,190	9,877,545
SOUTH CAROLINA, GEORGIA, AND ALABAMA	51,453	924,378	7 - OUNCES NET (48 CANS). . .	7,919	218,830
			OTHER SIZES (CONVERTED TO STANDARD CASES).	17,700	367,649
TOTAL	871,171	12,187,049	TOTAL. . . .	994,129	12,187,049

1/ INCLUDES A SMALL PACK OF DRY SHRIMP.

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZED CASES CONVERTED TO THE EQUIVALENT OF FORTY-EIGHT CANS TO THE CASE, EACH CAN CONTAINING 5 OUNCES OF SHRIMP MEAT. SHRIMP WERE CANNED IN 16 PLANTS IN MISSISSIPPI, 25 IN LOUISIANA, 2 IN ALABAMA AND 1 PLANT EACH IN SOUTH CAROLINA AND GEORGIA.

NUMBER OF PLANTS PRODUCING FISHERY BYPRODUCTS, 1951

PRODUCT	ATLANTIC AND GULF COASTS 1/	PACIFIC COAST AND ALASKA	TOTAL
	NUMBER	NUMBER	NUMBER
MEAL AND SCRAP, DRIED:			
ANCHOVY	-	2	2
CRAB:			
BLUE	13	-	13
DUNGENESS	-	4	4
HORSESHOE	1	-	1
FUR SEAL	-	1	1
GROUNDFISH (INCLUDING OCEAN PERCH)	10	-	10
HERRING	9	13	22
MENHADEN	35	-	35
PILCHARD	-	41	41
SALMON	-	6	6
SHRIMP	31	-	31
TUNA AND MACKEREL	-	26	26
WHALE:			
BONE	-	1	1
MEAT	-	1	1
MISCELLANEOUS MEAL AND SCRAP, DRIED	17	13	30
MENHADEN ACIDULATED SCRAP	1	-	1
OIL, BODY:			
ANCHOVY	-	2	2
FUR SEAL	-	1	1
HERRING	8	13	21
MENHADEN	35	-	35
OCEAN PERCH (ROSEFISH)	2	-	2
PILCHARD	-	42	42
SALMON:			
EDIBLE	-	2	2
INDUSTRIAL	-	6	6
TUNA AND MACKEREL	-	28	28
WHALE:			
SPERM	-	1	1
OTHER	-	1	1
MISCELLANEOUS BODY OIL	7	7	14
OIL, LIVER AND VISCERA:			
COD	5	-	5
FLOUNDER	-	1	1
HALIBUT	2	3	5
HAKE	1	-	1
LINGCOD	-	2	2
POLLOCK	1	-	1
ROCKFISH	-	1	1
SABLEFISH	-	1	1
SHARK	2	7	9
SWORDFISH	2	-	2
TUNA	3	2	5
WHALE	1	-	1
VISCERA	-	3	3
MISCELLANEOUS LIVER AND VISCERA OIL	1	4	5
OYSTER-SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED	15	5	20
SHELL LIME:			
BURNED	2	-	2
UNBURNED	15	4	19
MUSSEL SHELL PRODUCTS (FRESH WATER):			
BUTTONS	13	-	13
CRUSHED SHELL FOR POULTRY FEED	2	-	2
LIME, DUST, AND SHELLS	6	-	6
MARINE PEARL-SHELL BUTTONS	24	-	24
AGAR-AGAR	-	2	2
ALGIN	1	-	1
AMINO ACIDS	-	1	1
CRAB SHELLS (FOR TABLE USE)	2	-	2
FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH	27	9	36
GLUE	1	1	2
IRISH MOSS EXTRACTIVES	2	-	2
ISINGLASS	1	-	1
KELP PRODUCTS	1	2	3
PEARL ESSENCE	6	-	6
TOTAL EXCLUSIVE OF DUPLICATION	181	94	275

1/ INCLUDES FIRMS IN THE GREAT LAKES AND MISSISSIPPI RIVER STATES WHICH ENGAGED IN THE PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS AND MISCELLANEOUS FISH MEAL.

NOTE:--LISTS OF CANNERS AND MANUFACTURERS OF FISHERY BYPRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE FISH AND WILDLIFE SERVICE, WASHINGTON 25, D. C.

PRODUCTION OF MARINE-ANIMAL SCRAP AND MEAL, 1951

PRODUCT	ATLANTIC AND GULF COAST 1/		PACIFIC COAST (INCLUDING ALASKA)		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
MEAL AND DRIED SCRAP:						
CRAB:						
BLUE	9,553	$550,288	-	-	9,553	$550,288
DUNGENESS	-	-	276	$15,379	276	15.379
FUR SEAL	-	-	351	39,318	351	39,318
GROUNDFISH ("WHITE FISH") INCL. OCEAN PERCH (ROSEFISH)	23,661	3,063,319	-	-	23,661	3,063,319
HERRING	3,976	495,905	5,655	874,178	9,631	1,370,083
MENHADEN	2/ 115,464	2/ 13,879,523	-	-	115,464	13,879,523
PILCHARD	-	-	17,225	2,266,968	17,225	2,266,968
SALMON	-	-	3/ 2,460	3/ 278,146	2,460	278,146
SHRIMP	1,051	75,165	-	-	1,051	75,165
TUNA AND MACKEREL	-	-	23,147	3,021,720	23,147	3,021,720
WHALE:						
MEAT	-	-	85	10,000	85	10,000
BONE	-	-	20	1,000	20	1,009
MISCELLANEOUS	4/ 2,307	4/ 256,471	5/ 4,525	5/ 546,517	6,832	802,988
TOTAL	156,012	18,320,671	53,744	7,053,226	209,756	25,373,897

1/ INCLUDES A SMALL PRODUCTION OF MISCELLANEOUS MEAL IN MINNESOTA.
2/ A SMALL PRODUCTION OF ACIDULATED SCRAP HAS BEEN INCLUDED WITH DRY SCRAP AND MEAL.
3/ INCLUDES SMALL PRODUCTION OF SALMON FISH FOOD FOR HATCHERY FEEDING.
4/ INCLUDES THE PRODUCTION OF COD LIVER PRESS CAKE, FISH POMACE, HORSESHOE CRAB, AND MISCELLANEOUS SCRAP AND MEAL.
5/ INCLUDES THE PRODUCTION OF ANCHOVY, AND MISCELLANEOUS SCRAP AND MEAL.

PRODUCTION OF MARINE-ANIMAL OIL, 1951

PRODUCT	ATLANTIC AND GULF COAST		PACIFIC COAST (INCLUDING ALASKA)		TOTAL	
	GALLONS	VALUE	GALLONS	VALUE	GALLONS	VALUE
BODY OIL:						
FUR SEAL	-	-	39,866	$36,997	39,866	$36,997
HERRING	168,701	$122,299	1,344,113	1,083,085	1,512,814	1,205,384
MENHADEN	12,537,115	9,771,154	-	-	12,537,115	9,771,154
PILCHARD	-	-	1,942,586	1,545,937	1,942,586	1,545,937
SALMON	-	-	200,681	165,787	200,681	165,787
TUNA AND MACKEREL	-	-	712,620	525,552	712,620	525,552
WHALE:						
SPERM	-	-	50,000	37,500	50,000	37,500
OTHER	-	-	18,500	12,700	18,500	12,700
MISCELLANEOUS	1/ 701,048	1/ 609,794	2/ 157,503	2/ 133,491	858,551	743,285
TOTAL	13,406,864	10,503,247	4,465,869	3,541,049	17,872,733	14,044,296
LIVER AND VISCERA OIL.						
COD	175,886	241,868	-	-	175,886	241,868
SHARK	(3)	(3)	3/ 75,878	3/ 632,199	75,878	632,199
TUNA	(3)	(3)	3/ 12,979	3/ 272,942	12,979	272,942
MISCELLANEOUS	4/ 5,045	4/ 662,719	5/ 29,787	5/ 769,619	34,832	1,432,338
TOTAL	180,931	904,587	118,644	1,674,760	299,575	2,579,347
GRAND TOTAL	13,587,795	11,407,834	4,584,513	5,215,809	18,172,308	16,623,643

1/ INCLUDES THE PRODUCTION OF OCEAN PERCH (ROSEFISH) AND UNCLASSIFIED BODY OILS.
2/ INCLUDES THE PRODUCTION OF ANCHOVY AND UNCLASSIFIED BODY OILS.
3/ EAST AND WEST COAST PRODUCTION COMBINED.
4/ INCLUDES THE PRODUCTION OF HAKE, HALIBUT, POLLOCK, AND SWORDFISH, WHOLE, AND UNCLASSIFIED LIVER OILS.
5/ INCLUDES THE PRODUCTION OF FLOUNDER, HALIBUT, LINGCOD, ROCKFISH AND SABLEFISH LIVER OILS, VISCERA OIL AND MIXED LIVER OILS.

IMPORTS: FISH OIL, SCRAP AND MEAL, 1949-1951

PRODUCT	UNIT	1949 1/		1950 1/		1951 1/	
		QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE
OILS, FISH AND MARINE ANIMAL	GALLONS	6,126,519	$12,577,944	9,701,357	$11,469,282	11,184,120	$17,940,528
SCRAP AND MEAL:							
ANIMAL FEED	TONS	46,985	6,954,997	55,422	6,288,258	98,499	11,610,193
FERTILIZER	DO	5,198	506,710	8,433	871,644	29,979	2,765,325

1/ PRELIMINARY DATA.

SUPPLEMENTARY REVIEW OF THE MENHADEN FISHERY, 1951 1/

STATE AND NO. OF PLANTS	MENHADEN UTILIZED		DRY SCRAP AND MEAL		OIL		TOTAL
	POUNDS	NO. OF FISH	TONS	VALUE	GALLONS	VALUE	VALUE
NEW YORK(1), NEW JERSEY(3), AND DELAWARE(2).	432,072,950	644,885,000	45,187	$5,463,417	5,008,992	$3,595,612	$9,059,029
VIRGINIA(6)	131,434,570	196,171,000	14,149	1,617,477	659,237	582,544	2,200 021
NORTH CAROLINA(9)	101,057,440	150,832,000	10,422	1,362,456	552.581	390.165	1 752.621
SOUTH CAROLINA(1), FLORIDA(3), & TEXAS(2) .	114,411,210	170,763,000	2/12,586	2/1,436,495	918,062	1,183,711	2.620 206
MISSISSIPPI(4).	115,364,620	172,186,000	11,170	1,321,899	2,030,811	1,325 844	2.647.743
LOUISIANA(4).	209,573,990	312,797,000	21,950	2,677,779	3,367,432	2,693.278	5.371.057
TOTAL (35)	1,103,914,760	1,647,634,000	115,464	13,879,523	12,537,115	9,771,154	23.650 677

1/ DOES NOT INCLUDE THE PRODUCTION OF MENHADEN SOLUBLES.
2/ A SMALL PRODUCTION OF ACIDULATED SCRAP HAS BEEN INCLUDED WITH THE DRY SCRAP AND MEAL.

PRODUCTION OF OYSTER-SHELL PRODUCTS, 1951

STATE AND NUMBER OF PLANTS	CRUSHED SHELL FOR POULTRY FEED		SHELL LIME UNBURNED		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
NEW JERSEY(3).	4,200	$63.962	776	$3,523	4,976	$67.485
PENNSYLVANIA(3), MARYLAND(3)	26,620	320,291	18,518	81,727	45,138	402.018
VIRGINIA(3), NORTH CAROLINA(2), FLORIDA(1), ALABAMA(1)	77,243	820.715	10.543	155.597	87,786	976.312
LOUISIANA(1), TEXAS(2)	251,195	1,775.720	42,100	142.454	293,295	1.918.174
WASHINGTON(2), ORGEON(1), CALIFORNIA(2).	18,533	176,441	3,591	28,315	22,124	204.756
TOTAL (24)	377,791	3,157,129	75,528	411,616	453,319	3,568,745

NOTE:--THE LIME PRODUCTION WAS UNBURNED WITH THE EXCEPTION OF A SMALL QUANTITY PRODUCED IN VIRGINIA.

PRODUCTION OF FRESH-WATER MUSSEL-SHELL PRODUCTS, 1951

STATE	BUTTONS		LIME, POULTRY GRIT, AND CUT SHELL		TOTAL
	GROSS	VALUE	TONS	VALUE	VALUE
IOWA.	4,042,226	$3,416,942	1/2,289	1/$40,309	1/$3,457,251
NEW YORK, PENNSYLVANIA AND MISSOURI	492,533	388,410	(1)	(1)	388,410
TOTAL.	4,534,759	3,805,352	2,289	40,309	3.845.661

1/ SMALL QUANTITIES OF LIME AND DUST PRODUCED IN NEW YORK ARE INCLUDED WITH THE IOWA PRODUCTION.
NOTE:--MUSSEL SHELL PRODUCTS WERE MANUFACTURED IN 11 PLANTS IN IOWA, 2 IN NEW YORK, AND 1 PLANT EACH IN PENNSYLVANIA AND MISSOURI. MUSSEL SHELLS PURCHASED DURING THE YEAR AMOUNTED TO 7,363 TONS, VALUE AT $316.756 TO THE FISHERMAN. SHELLS WERE TAKEN IN 10 STATES IN THE MISSISSIPPI RIVER AND GREAT LAKES REGION. THE PRODUCING STATES IN THE ORDER OF THEIR IMPORTANCE WERE: TENNESSEE, WHICH CONTRIBUTED 33 PERCENT OF THE TOTAL QUANTITY, ALABAMA 24 PERCENT, KENTUCKY 18 PERCENT, ARKANSAS 13 PERCENT, INDIANA 4 PERCENT, ILLINOIS AND IOWA 3 PERCENT EACH, OHIO 1 PERCENT, LOUISIANA AND MISSISSIPPI 1 PERCENT.

PRODUCTION OF MARINE PEARL-SHELL BUTTONS, 1951 1/

STATE	GROSS	VALUE
CONNECTICUT.	1.266,545	$1,670,781
NEW YORK	896,626	1.445,641
NEW JERSEY	1,217.941	2,010,060
PENNSYLVANIA AND MARYLAND.	1,212.874	2,521.863
IOWA	71.299	66.501
TOTAL	4.665,285	7,714,846

1/ PRODUCED PRINCIPALLY FROM IMPORTED SHELLS.
NOTE:--MARINE PEARL-SHELL BUTTONS WERE MANUFACTURED IN 3 PLANTS EACH IN CONNECTICUT AND IOWA, 4 IN NEW YORK 11 IN NEW JERSEY, 2 IN PENNSYLVANIA AND 1 IN MARYLAND.

PRODUCTION OF MISCELLANEOUS BYPRODUCTS, 1951

PRODUCT	UNIT	QUANTITY	VALUE	LOCATION AND NUMBER OF PLANTS
GLUE.	GALLONS	148,604	$382,565	MAINE 1, MASSACHUSETTS 2, CALIFORNIA 1.
FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH	POUNDS	100,727,715	4,128,356	MAINE 3, MASSACHUSETTS 5, RHODE ISLAND 1 NEW YORK 1, NEW JERSEY 2, DELAWARE 1, VIRGINIA 5, NORTH CAROLINA 2, FLORIDA 1 MISSISSIPPI 3, LOUISIANA 2 TEXAS 1, OREG 1, CALIFORNIA 8.
MISCELLANEOUS 1/.	-	-	7,675,314	MAINE 6, MASSACHUSETTS 2, VIRGINIA 2, NORTH
TOTAL	-	-	12,186,235	CAROLINA 1, SOUTH CAROLINA 1, CALIFORNIA 5.

1/ INCLUDES THE PRODUCTION OF AGAR-AGAR, ALGIN, AMINO ACIDS, IRISH MOSS EXTRACTIVES, ISINGLASS, KELP PRODUCTS PEARL ESSENCE AND CRAB SHELLS FOR TABLE USE.

IMPORTS: FISHERY PRODUCTS, CANNED, 1947-1951

ITEM	1947 1/		1948 1/		1949 1/		1950 1/		1951 1/	
CANNED	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE	POUNDS	VALUE
FISH:										
ANCHOVIES:										
IN OIL	2,621,919	$2,027,039	3,876,128	$2,758,189	5,440,595	$2,856,034	6,199,349	$2,786,057	4,981,711	$2,828,286
NOT IN OIL	451,432	171,320	1,063,306	332,168	823,387	219,227	653,702	129,532	574,729	122,620
SALMON, NOT IN OIL	32,286	12,214	882,482	299,289	917,786	254,863	419,125	112,802	568,045	192,631
SARDINES:										
IN OIL	15,810,396	5,932,289	22,104,039	8,676,087	16,207,305	6,033,018	22,573,052	7,731,382	19,324,088	7,057,733
NOT IN OIL (INCLUDES HERRING)	7,238,890	1,744,396	9,051,915	2,061,313	6,815,614	1,465,904	9,912,159	1,683,069	9,965,446	1,941,637
TUNA, IN OIL 2/	6,147,898	3,240,643	8,289,442	4,770,263	4,504,907	2,199,214	36,409,547	14,366,739	3,618,565	1,411,000
BONITO AND YELLOWTAIL, IN OIL	(2)	(2)	2/306,108	2/121,576	8,053,940	3,106,523	8,135,102	2,632,154	10,437,318	3,035,549
TUNA, ANTIPASTO AND SMOKED POLLOCK, NOT IN OIL (PRINCIPALLY TUNA)	(3)	(3)	12,884	5,512	79,357	25,313	380,917	93,196	9,351,758	3,097,236
ANTIPASTO, IN OIL	29,174	24,710	78,690	39,732	127,480	76,310	406,666	219,478	246,431	152,350
FISH CAKES, BALLS AND PUDDING	843,744	132,808	1,023,937	173,119	965,506	183,577	1,021,806	157,902	1,192,743	187,047
CAVIAR AND OTHER FISH ROE (MAY INCLUDE SOME NOT CANNED)	219,077	585,976	334,912	509,475	417,129	558,252	298,160	397,655	521,365	548,274
FISH PASTE AND SAUCE	19,061	6,206	39,828	25,664	75,079	51,259	131,715	60,512	109,347	45,089
OTHER:										
IN OIL	175,816	133,011	353,029	195,697	405,769	245,359	704,005	310,054	650,200	310,087
NOT IN OIL	369,765	182,507	681,089	286,614	1,076,849	412,749	3,089,485	831,663	2,438,520	728,158
TOTAL CANNED FISH	33,959,458	14,193,119	48,097,789	20,254,698	45,910,703	17,687,602	90,334,790	31,512,195	63,980,266	21,657,697
SHELLFISH, ETC:										
ABALONE(MAY INCLUDE FRESH AND DRIED AND CANNED PASTE AND SAUCE)	4,116,613	1,681,235	4,512,540	1,633,741	5,224,211	1,768,764	4,865,586	1,621,367	4,662,535	1,479,388
CLAMS:										
RAZOR	37,196	18,598	-	-	28,081	13,375	39,112	17,212	36,003	17,651
OTHER	2,110	1,149	32,325	17,727	278,344	124,289	366,788	105,714	437,553	152,640
CHOWDER, JUICE, ETC	8,805	1,490	23,925	4,769	16,510	3,540	17,026	4,307	15,964	3,712
CRAB MEAT (INCLUDES PASTE AND SAUCE)	377,823	302,922	1,336,567	750,872	2,306,794	1,959,604	4,070,337	3,673,416	1,967,789	2,099,914
LOBSTER MEAT:										
COMMON	1,071,701	1,309,892	1,638,910	2,477,435	1,409,585	2,088,586	2,009,611	2,631,153	1,498,550	1,995,504
SPINY	142,225	135,747	1,073,012	753,869	696,073	520,955	2,610,412	1,563,552	1,965,899	1,400,987
OYSTERS AND OYSTER JUICE	108,958	105,558	157,526	141,911	336,282	303,012	439,226	262,731	1,020,387	540,397
SHELLFISH PASTE AND SAUCE:										
LOBSTER	18,162	10,157	25,251	13,833	44,078	25,594	49,198	25,992	42,576	28,363
OTHER (EXCEPT LOBSTER AND CRAB)	95,920	59,704	83,147	45,414	141,610	69,096	116,493	39,975	113,401	42,591
OTHER SHELLFISH NOT ESPECIALLY PROVIDED FOR	1,199,228	560,416	613,633	323,197	1,223,088	484,953	1,223,286	431,619	1,188,273	416,614
TOTAL CANNED SHELLFISH	7,178,741	4,186,868	9,496,836	6,162,768	11,704,656	7,361,768	15,807,075	10,377,038	12,948,930	8,177,761
TOTAL CANNED FISH, SHELLFISH, ETC	41,138,199	18,379,987	57,594,625	26,417,466	57,615,359	25,049,370	106,141,865	41,889,233	76,929,196	29,835,458

1/ PRELIMINARY DATA. 2/ PRIOR TO APRIL 1948, IMPORTS OF BONITO AND YELLOWTAIL WERE INCLUDED WITH THOSE OF TUNA. 3/ PRIOR TO 1948 IMPORTS OF TUNA, ANTIPASTO AND SMOKED POLLOCK, NOT IN OIL (PRINCIPALLY TUNA) WERE INCLUDED WITH THOSE OF "OTHER FISH, NOT IN OIL".

PACK OF CANNED FISHERY PRODUCTS: STANDARD CASES - 1921 - 1951

Year	Salmon						Sardines			
	Pacific Coast States		Alaska		Total Salmon		Maine		California	
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
1921 - 1930 Av.	1,147,835	$11,916,541	4,860,058	$33,893,502	6,007,893	$45,810,043	1,677,265	$6,031,760	1,953,474	$6,961,598
1931 - 1935 Av.	984,706	7,301,890	5,699,775	28,513,777	6,684,481	35,815,667	1,042,116	2,974,505	1,719,387	4,519,462
1936	527,574	5,309,438	8,437,603	44,751,633	8,965,177	50,061,071	1,845,860	5,740,454	2,616,530	7,302,273
1937	885,372	8,386,165	6,669,665	44,547,769	7,555,037	52,933,934	1,680,241	4,998,373	2,812,456	8,592,117
1938	472,721	5,728,892	6,806,998	36,636,897	7,279,719	42,365,789	671,635	2,367,045	2,261,678	7,102,358
1939	728,943	7,339,727	5,263,161	34,441,122	5,992,104	41,780,849	2,210,466	7,075,096	3,108,082	9,553,663
1940	535,663	6,575,176	5,069,343	31,474,492	5,605,006	38,049,668	1,117,748	3,736,394	2,945,882	8,975,257
1941	899,589	11,199,317	6,932,040	56,217,601	7,831,629	67,416,918	3,164,787	12,590,958	5,007,154	18,091,873
1942	759,032	13,673,968	5,075,974	48,300,209	5,835,006	61,974,177	2,873,246	12,162,451	3,744,624	15,509,964
1943	275,889	5,110,847	5,428,318	57,824,267	5,704,207	62,935,114	2,505,114	11,104,570	3,354,697	14,352,359
1944	245,588	5,187,136	4,893,059	51,196,140	5,138,647	56,383,276	3,261,984	14,819,803	3,650,919	15,225,919
1945	557,769	7,942,102	4,350,471	44,644,303	4,908,240	52,586,405	2,725,216	12,077,201	3,765,981	15,346,472
1946	560,289	17,003,459	3,949,878	53,157,194	4,510,167	70,160,653	3,276,338	20,275,590	2,977,170	19,895,649
1947	1,329,226	31,969,134	4,312,172	88,666,301	5,641,398	120,635,435	3,013,910	28,310,674	1,652,592	16,538,375
1948	810,075	24,008,466	4,014,891	96,528,730	4,824,966	120,537,196	3,682,392	29,359,114	2,654,149	21,892,893
1949	1,133,325	22,167,812	4,391,601	81,263,171	5,524,926	103,430,983	3,074,523	21,051,675	3,768,212	21,334,825
1950	1,001,819	27,187,060	3,307,985	82,354,118	4,309,804	109,541,178	3,844,164	21,209,033	5,070,805	26,345,609
1951	1,161,274	29,388,514	3,484,296	79,237,355	4,645,570	108,625,869	1,676,764	14,635,352	2,864,984	19,362,744

Year	Tuna and Tunalike Fishes						Mackerel		Alewives		Fish Roe, Caviar, and Eggs for Bait	
	Tuna		Tunalike Fishes		Total Tuna and Tunalike Fishes							
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Cases	Value
1921 - 1930 Av.	1,017,364	$7,135,011	45,874	$236,069	1,063,238	$7,371,080	1/229,293	1/$979,927	24,066	$77,558	2/68,740	2/$820,057
1931 - 1935 Av.	1,618,327	8,440,215	50,484	205,818	1,668,811	8,646,033	806,664	2,117,791	20,095	48,402	48,284	814,969
1936	2,415,549	13,558,819	265,185	1,156,572	2,680,734	14,715,391	1,236,850	3,542,895	24,140	58,527	59,040	1,028,293
1937	2,929,352	17,914,589	215,149	1,081,190	3,144,501	18,995,779	840,832	2,673,608	54,993	139,585	69,974	996,169
1938	2,512,345	14,143,133	241,798	1,040,503	2,754,143	15,183,636	965,629	2,896,220	52,886	143,558	61,337	786,441
1939	3,417,035	19,147,235	225,916	932,332	3,642,951	20,079,567	889,389	2,588,695	22,882	74,804	64,448	957,875
1940	3,994,470	22,926,463	193,990	801,097	4,188,460	23,727,560	1,421,894	4,101,369	24,486	72,070	61,852	891,814
1941	2,556,922	17,605,146	374,659	1,792,741	2,931,581	19,397,887	935,001	3,503,718	42,156	153,269	76,740	815,514
1942	2,404,908	30,008,885	79,841	733,608	2,484,749	30,742,493	721,189	3,693,082	77,232	399,555	53,190	910,890
1943	2,579,815	30,541,893	116,258	888,296	2,696,073	31,430,189	937,251	5,271,203	112,472	619,213	59,884	1,044,582
1944	3,530,877	40,615,221	29,143	220,896	3,560,020	40,836,117	1,225,060	7,033,997	135,995	793,254	55,677	824,197
1945	4,442,101	46,713,477	89,464	693,974	4,531,565	47,407,451	692,748	4,046,691	131,062	753,769	36,795	948,042
1946	4,596,629	57,342,706	187,855	1,793,117	4,784,484	59,135,823	962,150	7,575,291	193,980	1,180,197	58,192	1,905,638
1947	5,447,554	85,093,328	446,941	5,515,847	5,894,495	90,609,175	1,754,950	15,018,633	139,816	779,150	52,432	1,641,228
1948	6,663,619	107,980,968	374,139	4,631,328	7,037,758	112,612,296	1,281,192	9,850,834	123,134	639,356	50,629	1,473,320
1949	7,130,453	96,039,797	159,867	1,670,528	7,290,320	97,710,325	1,049,927	6,848,930	111,994	469,398	86,459	1,969,998
1950	8,944,598	112,136,363	71,943	693,731	9,016,541	112,830,094	1,457,048	7,491,816	69,568	316,993	70,382	1,886,959
1951	8,131,274	98,102,229	105,451	943,977	8,236,725	99,046,206	1,048,518	6,259,224	127,760	604,314	76,095	1,926,140

Year	Clam Products		Crabs		Oysters		Shrimp		Other Fish and Shellfish	Total
	Cases	Value	Cases	Value	Cases	Value	Cases	Value	Value	Value
1921 - 1930 Av.	2/542,612	$2,119,298	1/2,870	$53,908	520,205	$2,524,660	910,491	$4,475,680	1/$2,162,290	$77,965,913
1931 - 1935 Av.	521,573	2,242,896	13,548	109,235	417,985	1,392,686	1,143,677	3,836,331	1,785,685	64,303,662
1936	754,334	2,976,297	14,600	130,753	566,470	2,180,869	1,024,392	4,672,198	2,155,233	94,564,254
1937	773,448	3,013,446	27,394	269,699	759,589	2,932,681	1,434,894	7,130,747	2,498,797	105,174,935
1938	769,665	3,189,628	27,398	260,134	516,901	1,886,476	1,207,553	4,872,393	2,392,211	83,445,889
1939	935,147	3,798,319	32,828	259,756	648,569	2,378,945	1,376,758	5,397,662	2,682,319	96,627,550
1940	927,628	3,778,363	38,740	308,890	690,585	2,526,859	1,116,249	4,318,325	3,695,372	94,181,941
1941	927,343	3,711,029	60,198	547,617	657,045	2,997,114	884,874	4,882,544	4,575,716	138,684,157
1942	782,602	3,791,058	114,548	1,755,065	523,262	3,598,703	963,352	7,347,330	3,112,179	144,996,947
1943	464,794	2,802,420	75,308	1,194,483	345,868	2,821,556	660,436	5,360,647	2,252,456	141,188,792
1944	547,696	3,820,612	86,942	1,361,458	273,556	2,283,429	561,649	4,854,799	4,677,376	152,914,237
1945	900,032	7,391,098	55,514	883,767	225,964	2,029,953	214,971	1,918,633	7,411,089	152,800,571
1946	1,527,789	11,145,047	199,078	4,720,119	390,835	5,249,272	522,130	8,428,735	17,957,441	227,629,455
1947	1,257,650	8,642,235	139,818	2,705,391	410,487	4,259,485	472,366	8,192,004	13,347,135	310,678,920
1948	1,179,774	8,329,639	220,802	4,846,494	357,080	4,777,531	558,870	7,791,313	14,071,493	336,181,479
1949	1,186,060	8,779,018	161,829	3,490,885	452,918	6,525,207	664,721	11,203,325	12,689,336	295,503,905
1950	1,518,719	10,839,889	137,490	3,121,269	492,390	7,096,235	786,506	12,775,619	17,858,766	331,313,460
1951	1,501,607	11,773,909	149,945	3,586,558	466,334	5,931,276	871,171	12,187,049	17,271,654	301,210,295

1/ Represents 5-year average. 1926 - 1930. 2/ Represents 4-year average, 1927 - 1930 inclusive.

Note:--The cases listed above for all years are the same as used in the individual pack tables in this bulletin.

PRODUCTION OF FISHERY BYPRODUCTS, 1921 - 1951

Year	Menhaden Dried Scrap and Meal		Menhaden Acidulated Scrap		Herring Meal		Pilchard Meal		Tuna and Mackerel Meal		Other Meal, Dried and Green Scrap	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1921 - 1930 Av.	34,109	$1,587,175	28,374	$678,844	(1)	(1)	2/22,726	2/$1,241,001	2/3,047	2/$151,334	34,163	$1,638,101
1931 - 1935 Av.	31,488	935,645	15,407	257,799	12,634	$363,085	55,494	1,648,972	3/8,550	3/ 226,263	23,421	827,215
1936	42,411	1,411,710	23,482	359,615	16,780	593,357	121,739	3,968,305	11,847	359,409	27,519	1,004,002
1937	35,801	1,581,219	31,600	618,104	20,460	680,382	89,422	3,325,282	13,066	456,358	29,593	904,190
1938	39,274	1,576,620	21,814	418,936	17,747	592,588	89,927	3,437,892	11,224	409,211	25,230	982,916
1939	52,950	2,224,920	15,853	265,850	18,222	763,419	96,947	4,103,638	12,084	464,578	30,046	1,271,192
1940	56,249	2,423,229	15,520	271,533	9,216	380,134	69,975	3,007,705	14,955	610,007	27,329	1,141,213
1941	75,316	4,008,355	11,029	242,792	12,520	847,116	97,979	5,942,272	8,693	484,886	31,307	1,570,152
1942	50,504	3,362,279	2,594	80,520	5,591	386,059	71,828	5,310,037	7,144	465,481	33,419	2,021,383
1943	66,357	4,766,672	1,555	58,821	9,170	690,280	75,611	5,775,932	7,766	505,199	29,944	1,832,248
1944	69,170	4,913,224	2,922	111,104	14,212	1,044,861	86,196	6,582,600	9,648	644,458	30,999	1,946,775
1945	77,451	5,483,377	1,557	62,200	14,344	1,120,042	60,860	4,643,694	10,273	705,976	36,190	2,390,049
1946	94,622	8,605,118	2,022	78,475	19,505	2,248,942	36,899	5,233,075	13,584	1,743,189	32,989	2,530,624
1947	98,602	10,883,852	632	26,863	18,453	2,649,474	16,715	2,556,038	19,761	2,998,321	32,276	3,265,803
1948	4/104,058	11,560,914	(4)	(4)	17,686	2,065,042	19,076	2,614,616	21,305	2,757,778	37,419	4,090,384
1949	4/113,393	17,813,339	(4)	(4)	5,298	973,445	39,278	6,219,717	19,139	3,073,742	60,072	7,571,899
1950	4/103,365	12,864,751	(4)	(4)	17,797	2,138,776	43,009	5,269,696	25,377	3,268,594	50,376	5,710,538
1951	4/115,464	13,879,523	(4)	(4)	9,631	1,370,083	17,225	2,266,968	23,147	3,021,720	44,289	4,835,603

Year	Menhaden Oil		Herring Oil		Pilchard Oil		Tuna and Mackerel Oil		Whale and Sperm Oil	
	Gallons	Value	Gallons	Value	Gallons	Value	Gallons	Value	Gallons	Value
1921 - 1930 Av.	4,863,899	$1,969,152	2,063,436	$797,716	2,770,878	$1,156,437	2/45,354	2/$13,933	1,403,568	$678,544
1931 - 1935 Av.	3,200,351	582,152	3,116,230	562,980	12,458,879	2,835,610	3/182,452	3/38,512	775,424	178,453
1936	4,880,879	1,249,708	3,796,586	954,706	26,131,439	8,336,079	357,914	98,221	4,154,966	1,707,561
1937	3,895,613	1,456,333	5,623,045	2,114,548	15,993,216	6,203,616	222,774	61,514	9,226,289	4,170,001
1938	4,189,129	1,173,667	4,579,565	1,298,837	17,539,567	5,205,337	278,879	81,532	7,741,000	3,184,058
1939	6,005,414	1,624,024	4,847,512	1,157,418	19,996,422	6,078,317	310,661	92,906	3,550,230	1,132,871
1940	5,774,671	1,304,720	2,241,169	606,722	12,626,849	3,761,160	447,326	123,801	2,561,918	952,164
1941	6,034,050	2,829,441	3,041,315	1,563,545	18,125,147	9,879,290	250,517	100,048	34,058	15,907
1942	5,128,760	3,200,129	985,403	646,565	12,508,958	8,067,750	214,932	112,042	47,247	31,733
1943	5,734,668	3,892,142	1,727,441	1,129,446	13,947,295	9,301,593	219,044	131,906	37,964	30,406
1944	6,067,111	3,725,498	2,389,287	1,603,078	18,098,982	11,722,950	317,236	177,774	7,185	5,135
1945	8,335,094	5,656,550	2,663,546	1,786,040	11,852,994	7,926,147	304,143	173,452	-	-
1946	9,758,648	9,033,032	3,532,454	4,292,776	4,866,567	6,843,376	359,437	395,475	-	-
1947	8,473,371	11,425,497	3,875,025	4,144,643	2,103,965	2,677,453	748,017	958,998	66,374	70,007
1948	8,763,939	10,132,179	3,643,537	4,004,250	2,328,572	2,457,858	660,515	622,110	120,089	130,217
1949	8,293,911	3,407,510	723,350	394,297	6,123,140	2,872,532	597,935	265,736	74,950	52,475
1950	10,209,958	5,866,554	3,309,457	2,366,005	6,188,607	4,693,550	884,434	553,231	-	-
1951	12,537,115	9,771,154	1,512,814	1,205,384	1,942,586	1,545,937	712,620	525,552	68,500	50,200

Year	Liver Oils		Other Marine-Animal Oils		Oyster and Marine Clam-shell Products		Fresh-Water Mussel-Shell Products	Marine Pearl-shell Products	Other Byproducts	Grand total
	Gallons	Value	Gallons	Value	Tons	Value	Value	Value	Value	Value
1921 - 1930 Av.	(5)	(5)	5/459,292	5/$222,121	308,823	$2,455,768	6/$5,575,967	7/$4,544,147	$1,001,606	8/$17,948,654
1931 - 1935 Av.	3/109,419	3/$912,476	295,480	114,243	314,802	1,606,093	4,210,128	3,491,872	1,165,471	19,721,516
1936	351,400	2,896,655	228,634	85,536	383,703	1,578,108	4,710,260	4,265,986	1,389,766	34,968,984
1937	347,921	2,204,097	325,811	145,643	382,718	1,612,847	4,791,205	5,079,895	1,398,811	36,804,045
1938	506,203	2,476,343	305,792	106,241	339,425	1,416,557	2,698,879	4,197,503	1,319,250	30,576,367
1939	677,975	4,471,688	363,899	139,845	386,005	1,539,557	2,492,342	4,827,413	1,388,836	34,038,814
1940	790,621	5,088,153	373,384	188,458	395,088	1,479,847	2,489,438	5,399,720	1,326,254	30,554,258
1941	1,233,242	14,871,588	565,298	334,395	438,407	1,985,253	3,037,350	6,236,714	2,851,970	56,801,074
1942	1,000,912	10,034,907	692,892	486,476	466,037	2,582,261	5,064,271	5,528,421	3,516,548	50,896,862
1943	851,854	14,841,970	597,950	485,391	509,285	2,820,986	3,782,028	4,696,593	4,394,653	59,136,266
1944	998,802	13,237,435	444,372	536,911	582,215	3,134,696	4,428,903	4,134,738	5,348,413	63,298,553
1945	804,288	11,202,207	541,787	491,326	507,096	2,573,717	4,844,647	3,286,245	5,864,937	58,210,606
1946	895,884	13,478,590	618,020	658,883	390,433	2,270,853	6,629,578	5,635,904	6,964,960	76,642,850
1947	832,510	11,643,468	633,630	830,596	501,393	3,263,158	8,166,000	7,902,000	7,130,156	80,592,327
1948	740,137	12,507,652	826,822	1,128,541	345,075	2,474,492	5,447,121	8,587,011	9,285,458	79,865,623
1949	834,357	9,845,455	1,048,190	526,972	362,028	2,662,252	3,767,703	6,782,281	12,243,140	78,472,495
1950	331,257	3,431,090	840,136	562,279	399,375	2,950,053	4,126,533	9,239,018	13,208,356	76,249,024
1951	299,575	2,579,347	1,099,098	946,069	453,319	3,568,745	3,845,661	7,714,846	12,186,235	69,313,027

1/ Included with other meal, dried scrap, and crude or green scrap. 2/ Represents average for 1926-1930, since previous data are not available. 3/ Represents average for 1932-1935, inclusive, since data for 1931 are not available. 4/ A small production of acidulated scrap is included with menhaden dried scrap and meal. 5/ The production of liver oils has been included with other marine animal oils. 6/ Represents average for 1929 and 1930 since data for earlier years are not available. 7/ Represents value of production for 1930 only, since data for earlier years are not available. 8/ Value of mussels-shell and pearl-shell products are not included, 1921-1925.

INT.-DUP. SEC., WASH., D.C. 24673

PRODUCTION AND VALUE OF CANNED FISH, FISH MEALS AND OILS, 1921–1951